

XIAMEN JINYANG INDUSTRIAL CO., LTD.



Website: onethatch.com

Address: 8 Fengling 2nd Rd, Tong'an District, Xiamen,  
Fujian, China, 361100

Email: sales@onethatch.com

Email: info@jinyangindustry.com

Tel: +1-352-284-9958



## SYNTHETIC THATCH

### Installation Manual

This installation manual is for ONETHATCH PALM installation exclusively.  
For other product installation, please refer to our other installation guides.

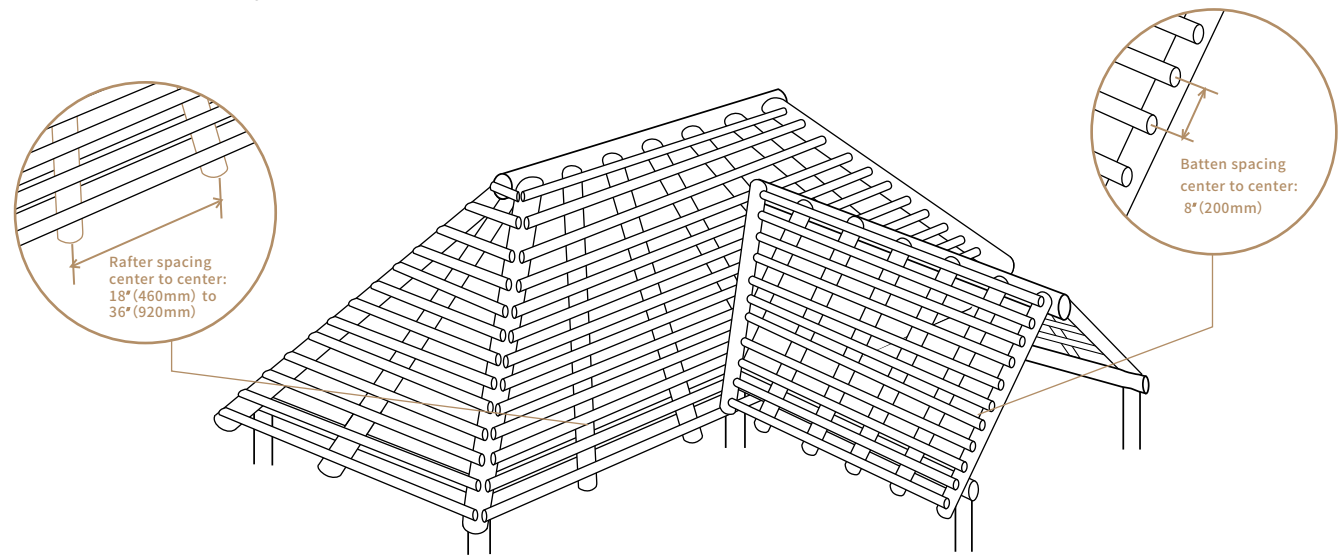


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## Structure Layout & Spacing:

The frame of the structure should be constructed with wood that are able to endure major weather conditions. Our recommended choices are eucalyptus, cypress, and pressure treated woods or just metal frames.

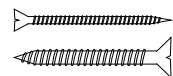


Rafter spacing: 18"(460mm) to 36"(920mm)

Batten spacing: 8"(200mm)

Batten size: Min.1.25"(300mm), max.2.25"(600mm)

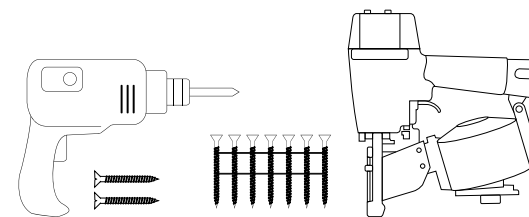
Slope: Min 4/12(18.4°) Recommend 6/12(26.5°) or greater



Nails/Screws:  
Stainless roofing nails  
1.25-1.5" (30-40mm)

## Preparation

Before the actual installation, take out 5-10 shingles, push against the ground, and then give them a shake to loosen the shingles for a more naturalistic appearance when installing.

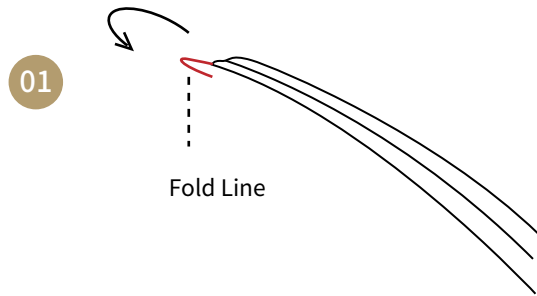


## Tools Needed:

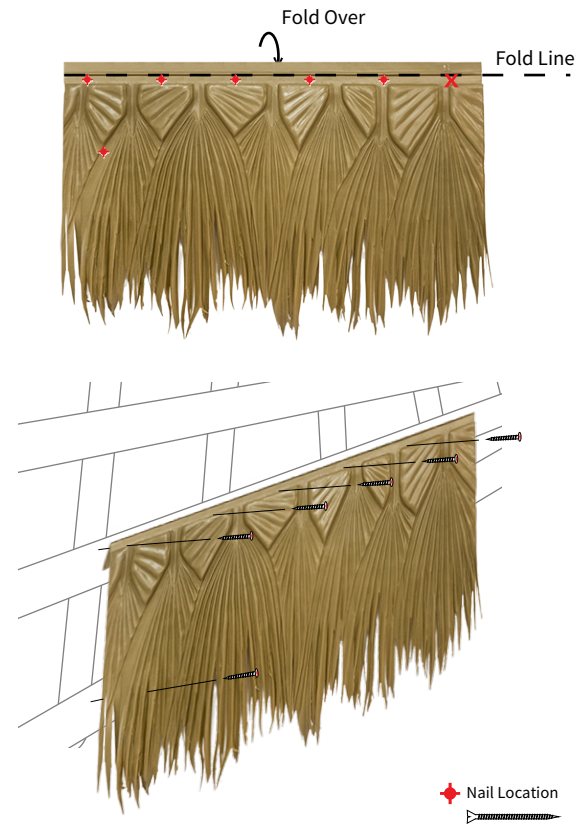
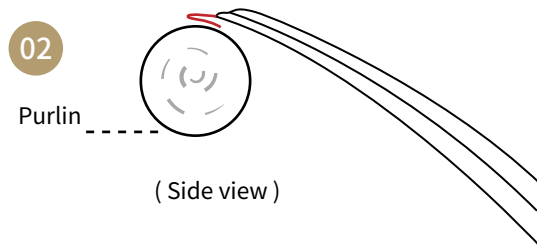
- Hammer
- Nails
- Nail Gun/ Drill Driver

- Ladder
- Measure Tape
- Cutting knife

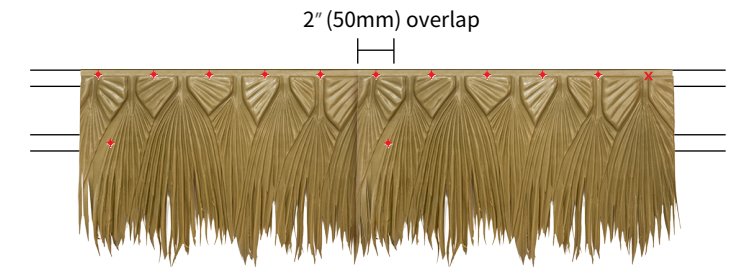
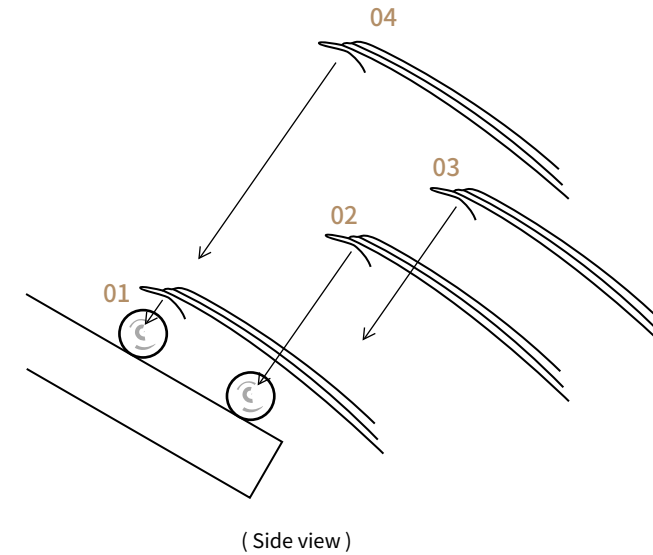
Fold the flap along the fold line.



Nail/screw at the nail location, through the flap, into the purlin.



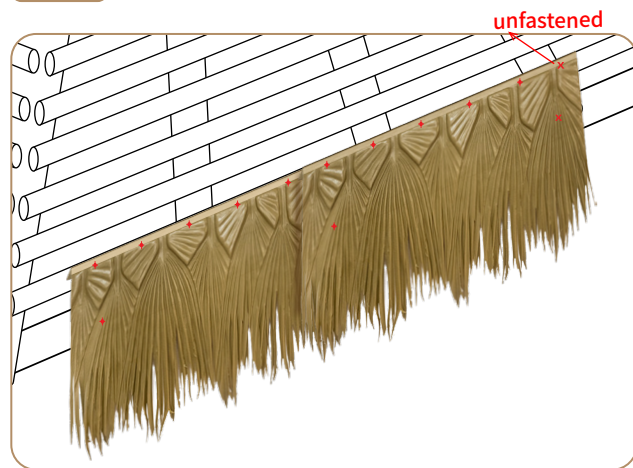
### Layout structure:



Depends on the size of the frame, repeat the procedures above to finish the full cover of the eave installation.  
Tips: The shingles on the first purlin can be placed in a free manner to create a more naturalistic appearance.

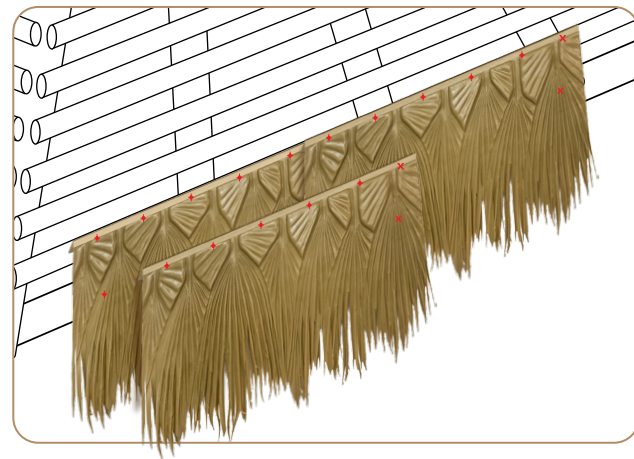
## Installation Eave:

step 01



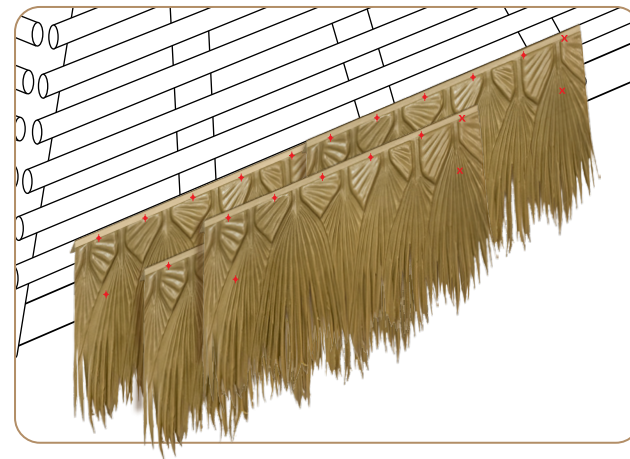
Install the 1st row of shingles on the 2nd purlin, leaving the right corner unfastened on all shingle installations, which will be overlapped and fastened by the following shingle installation.

step 02



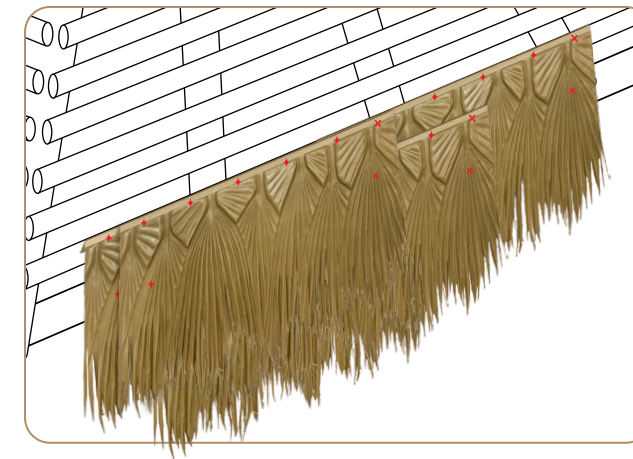
Install the 2nd row of shingles on the 1st purlin. Make sure to leave a minimum 2" (50mm) on the side unfastened.

step 03



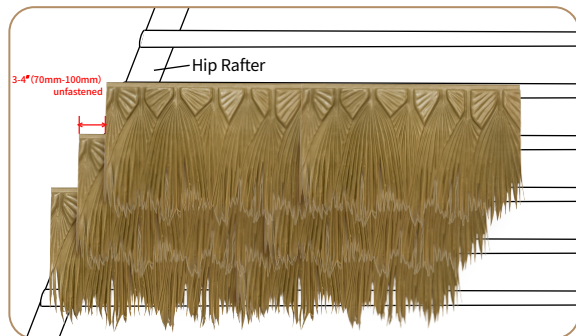
Install the 3rd row of shingles on an upper position of the 1st purlin (for this one you don't have to nail through the nail location on our product). Make sure to leave a minimum 2" (50mm) on the side. The position of the 3rd row of shingles can be angled a bit for a more naturalistic design.

step 04

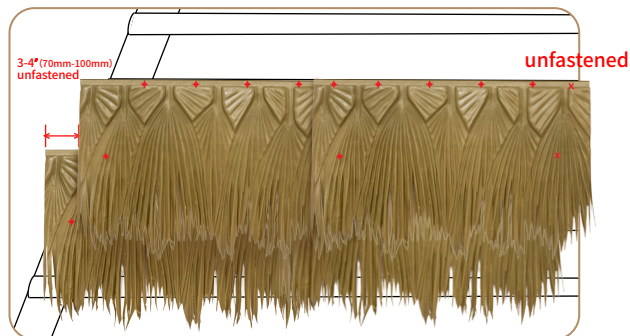


Install the 4th row of shingles on the 2nd purlin (same purlin as the 1st row of shingles).

## Installation Field:

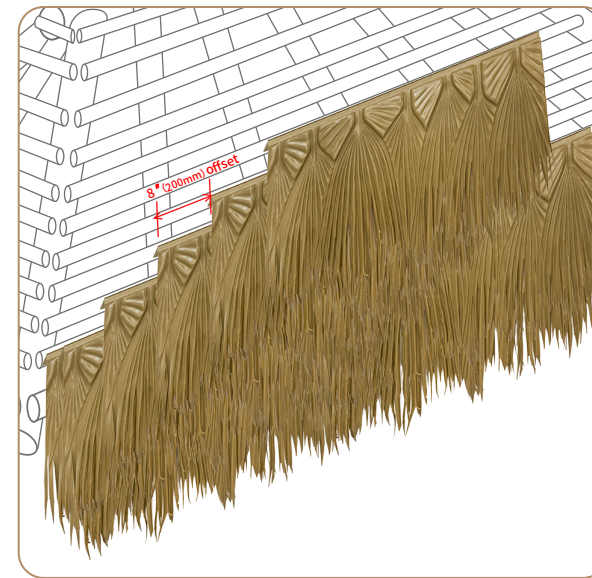


Begin field shingle installation at the hip. Extend field shingle 3-4" (70mm-100mm) over the center line of the hip.



leaving 3-4" (70mm-100mm) from the hip unfastened. Continue fastening, leaving the top corner unfastened, Place one fastener in the field shingle on the purlin below.

Repeat this procedure to reach full cover of the next purlin.



KEY: as you go up higher, make sure there are offsets of a minimum of 8" (200mm) inches space between each row of shingles installed.

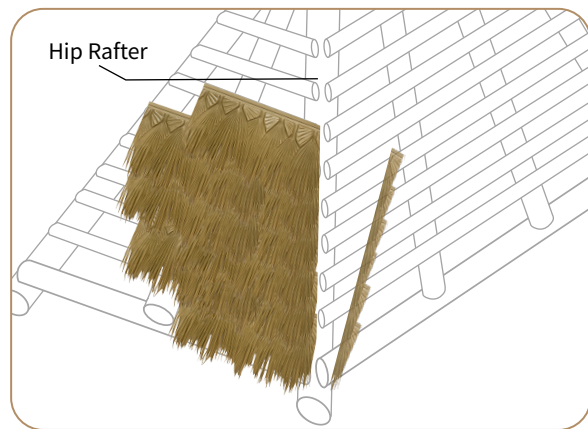


Field

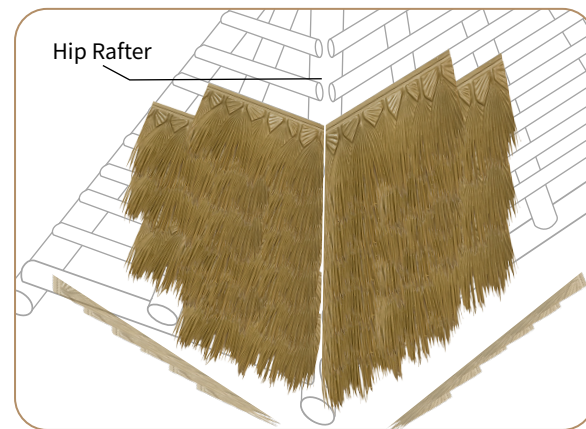
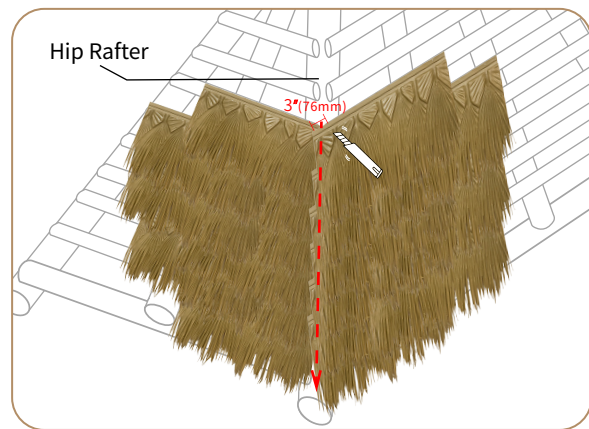


Trim the extended portion with a cutting knife along the center line of the hip.

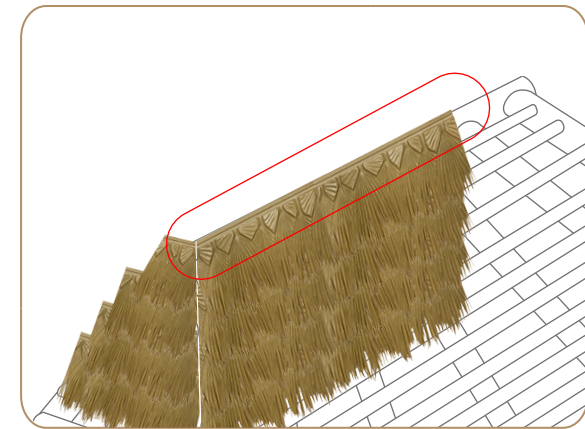




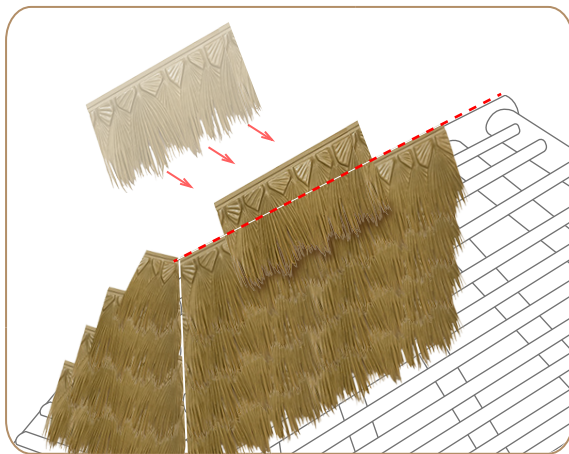
After cutting the field shingles on the left side, continue to cut the field shingles that intersects on the other side along the center line of the hip.



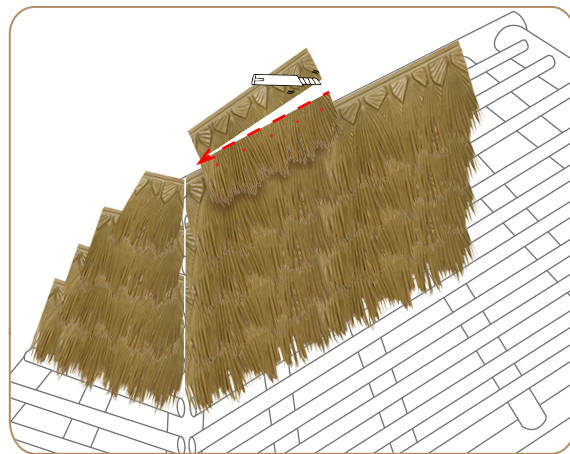
The field shingles on the hip on both sides are cut as shown above.



The leaf pattern at the top end is exposed.

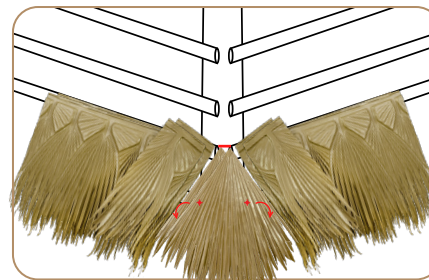


Install another field shingle to cover the exposed leaf pattern. For this one, you don't have to nail through the nail location on our product.

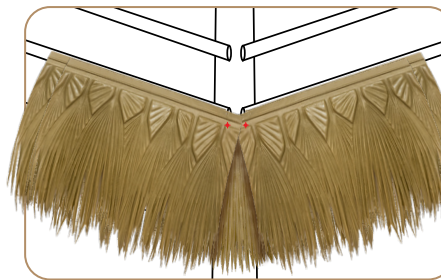


Trim the upper part of the field shingle neatly along the center of the ridge line.

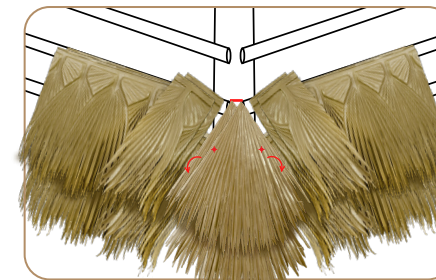
## Installation Hips:



Nail the two stacked hip shingles into the bottom purlin.

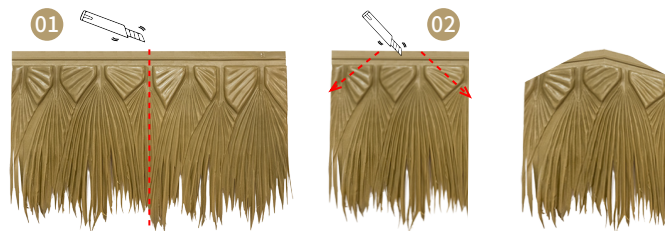


Nail the corners of the previous installed field shingles into the hip shingles below. Repeat this procedure for every row to reach the entire hip.

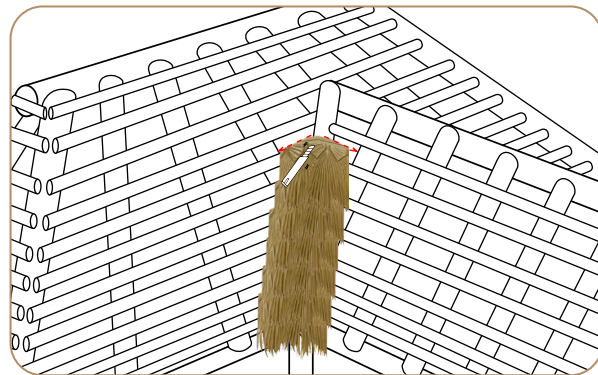




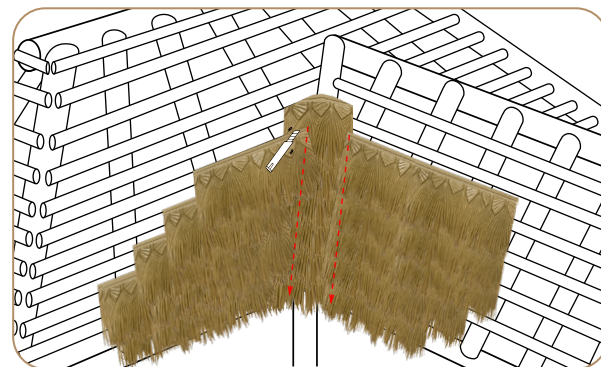
### Installation Valley:



Begin Valley installation by cutting a field shingle in half.

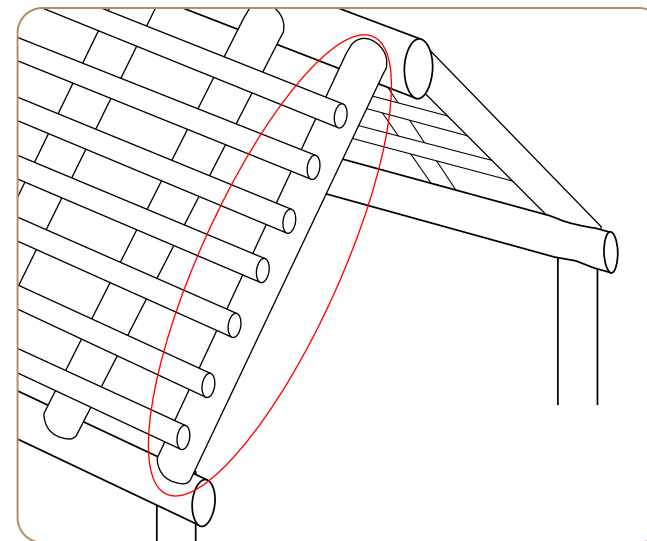


Install half field shingles from the eave up, one shingle per course.



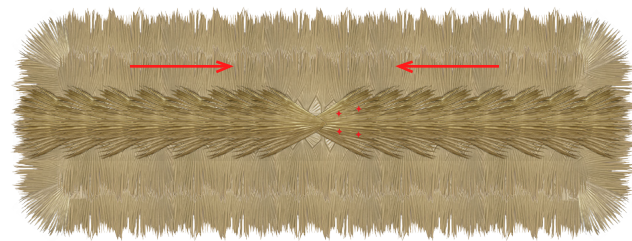
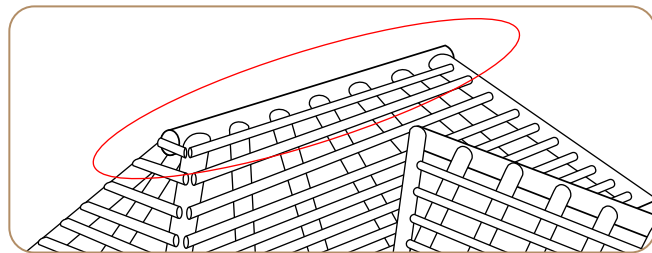
Field shingles will be installed over the Valley, trimmed 2" (50mm) - 3" (70mm) off the center line of the Valley.

### For gable end frames:

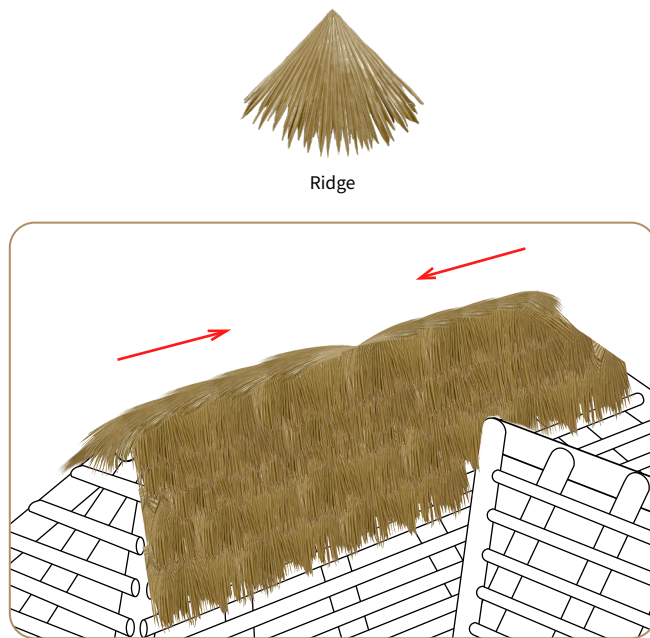


For gable end frames, make sure that you have at least 3-4" (70-100mm) extended outside of the fascia. Wrapping the shingles around the fascia. Fold and trim the unneeded length, then nail to the fascia from the bottom.

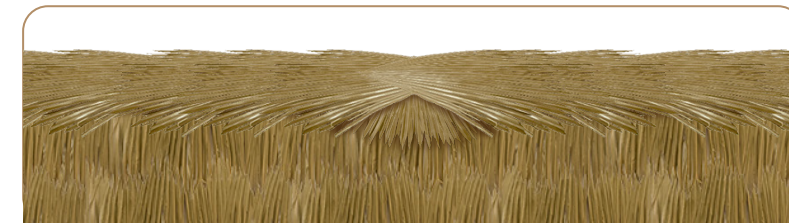
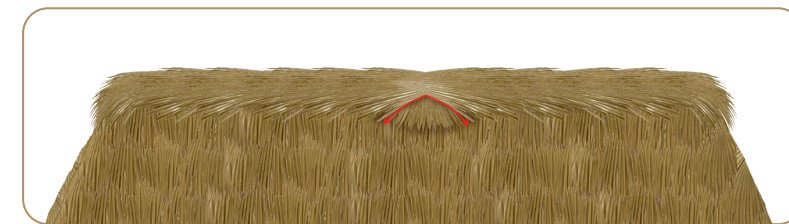
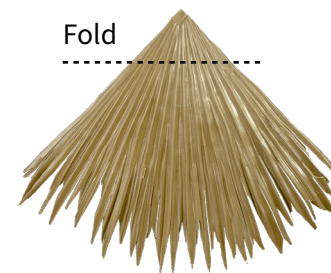
## Installation Ridge:



Install ridge shingles to cover the entire ridge, placing a minimum of 2 nails on each side of the ridge shingle.



Make sure the center tip of the ridge is covered to ensure waterproofing for the ridge. Install from ends of the ridge towards the center.



For the center, place a folded hip shingle on top of each side of the field shingles, perpendicular to the hip shingles on the hip. To finish off, continue to progress the hip shingles for the ridge construction towards the center, covering the top of the two perpendicular hip shingles.